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United States Department of the Interior
FISH AND WILDLIFE SERVICE
KANSAS STATE OFFICE
215 SOUTHWIND PLACE
MANHATTAN, KANSAS 66502
913-539-3474

3 January 1989

Alice C. Fuerst
Remedial Section, Superfund Branch
Waste Management Division
U.S. Environmental Protection Agency
726 Minnesota Avenue
Kansas City, KS 66101

Dear Ms. Fuerst:

With this letter we are transmitting to you our proposed work plan for the gray bat survey to be conducted prior to the Galena Superfund Site clean-up. This supercedes information contained in our November 29, 1988 letter to you regarding this issue.

If you have additional questions, please do not hestitate to contact us.

Sincerely,

L. Ronel Finley
State Supervisor

enclosure: 1

cc: FWS/FWE, Grand Island, NE (64320)
(Field Supervisor)

KDWP, Pratt, KS
(Environmental Services)

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REMD SECTION

S00082314
SUPERFUND RECORDS

WORK PLAN

GRAY BAT SURVEY

SUPERFUND CLEANUP - GALENA SUBSITE

Project Description

This project would survey the 6.25 square mile area of the Galena Subsite for the potential occurrence of the federally listed endangered gray bat (Myotis grisescens). Pursuant to provisions of the Endangered Species Act, federally conducted activities must not adversely affect listed species. The survey purpose would be to determine if gray bat habitat exists on the Galena Subsite and if the species is utilizing any available habitat.

The results of this survey will be used to assess the potential for impacts to the gray bat which could result from cleanup activities (i. e., filling old mine shaft openings). If impacts appear likely to occur, recommendations on measures to avoid or mitigate such impacts will be provided.

Personnel

In addition to Daniel Mulhern, Fish and Wildlife Service Endangered Species Biologist, the project will involve personnel from the Biology Department at Pittsburg State University, Pittsburg, Kansas. Steven D. Ford, Ph. D., vertebrate zoologist, will serve as principal investigator, and Richard Laas,

research technician, will assist with all field work. Both men are knowledgeable of bat biology and habitat requirements.

Project Methodology

Physical descriptions and maps of all mine openings in the Galena Subsite are found in Kansas Geological Survey Open File Report No. 83-2. This information will be compared with known gray bat habitat requirements to determine if suitable habitat potentially occurs anywhere on the Subsite. Each section of the area will then be "ground-truthed" by surveying on foot or by vehicle, particularly searching for sites judged to contain potential habitat. This work will take place during the winter of 1988-1989.

After bats return to southeast Kansas in April, those sites determined to contain potential habitat will be surveyed for the actual occurrence of bats. Observers will station themselves near mine openings at dusk with lights and an electronic bat detector to observe if bats emerge prior to nightfall. All such "active" roost openings will be noted on maps for subsequent visitation.

The second visit to those openings observed to contain bats will involve use of a mist net to capture a sample of bats in order to determine their species. The gray bat may be readily distinguished in-hand from all other Myotis species occurring in Kansas by the uniform grayish brown coloration of its dorsal fur. Other Kansas species have two or more colors on their backs. In this way, any utilization by gray bats can be documented. This work should be completed during a four to eight week period in spring 1989.

Reporting

The Fish and Wildlife Service will provide to EPA two quarterly progress reports, summarizing all work completed to date (including justification for delays, if any). Format for these reports will follow that provided in Attachment 2 of Interagency Agreement No. DW 14933513 01 0. Upon completion of the project, a final report will document all activities and results. Recommended impact-avoidance measures will be provided as appropriate, depending on our conclusions regarding the potential for impacts to gray bats.

Work Schedule

Activity	Completion Date
Determine potential habitat suitability and field survey the Galena Subsite.	February 28, 1989
First quarterly progress report.	March 31, 1989
Observe for actual bat use at likely mine openings, capture bat specimens to identify by species.	May 31, 1989
Second quarterly progress report.	~~May~~ June 31, 1989

Final report with recommendations. July 15, 1989

Budget

Item		Staff-days
Coordinate development of criteria and apply to sites on project area		10
Data acqisition, meeting attendance, coordination and report writing		10
Travel and infield survey work		8
28 days at $210*	=	$5,880
Coordination with university other species experts and equipment	=	$3,000
TOTAL BAT SURVEY WORK		$8,880

*includes travel and overhead